

Area **TM8**Machine IO

Pump

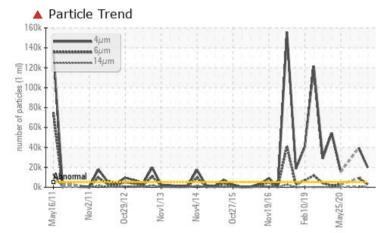
## **PROBLEM SUMMARY**

# Sample Rating Trend

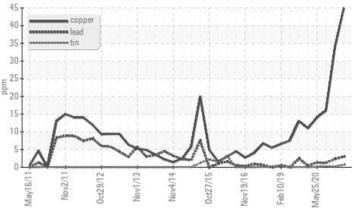
# ROYAL PURPLE SYNFILM GT220 (35 GAL)

TM 8 SOUTH VACUUM PUMP

#### COMPONENT CONDITION SUMMARY



#### ▲ Non-ferrous Metals



#### RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ATTENTION	ABNORMAL		
Copper	ppm	ASTM D5185m	>30	<u> </u>	34	16		
Particles >4µm		ASTM D7647	>5000	<b>19834</b>	93363			
Particles >6µm		ASTM D7647	>1300	<b>4</b> 2953	9096			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>1</b> 21/19/14	22/20/17			

Customer Id: KIMMOBTM8 Sample No.: RP0037982 Lab Number: 06179418 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component if applicable.		

#### HISTORICAL DIAGNOSIS



#### 25 Oct 2022 Diag: Angela Borella

Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





#### 16 May 2021 Diag: Don Baldridge

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



# ISO

#### 25 May 2020 Diag: Don Baldridge

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





### **OIL ANALYSIS REPORT**

#### Area TM 8 Machine fo TM 8 SOUTH VACUUM PUMP

Pump Fluid

**ROYAL PURPLE SYNFILM GT220 (35 GAL)** 

#### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

#### 🔺 Wear

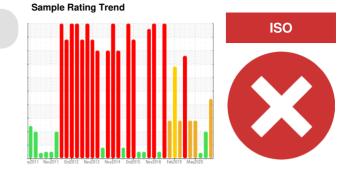
The copper level is abnormal. All other component wear rates are normal.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

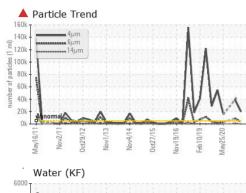


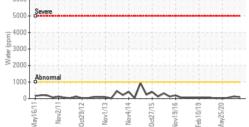
SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0037982	RP0023372	RP05256013
Sample Date		Client Info		30 Apr 2024	25 Oct 2022	16 May 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	15	13	5
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	1	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>7	<1	<1	0
Lead	ppm	ASTM D5185m	>12	3	2	1
Copper	ppm	ASTM D5185m	>30	<u> </u>	34	16
Tin	ppm	ASTM D5185m	>9	<1	<1	<1
Antimony	ppm	ASTM D5185m				1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	0	11
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	90	2	0	0
Calcium	ppm	ASTM D5185m		22	22	20
Phosphorus	ppm	ASTM D5185m		98	82	81
Zinc	ppm	ASTM D5185m		12	19	15
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	5	3	2
Sodium	ppm	ASTM D5185m		2	0	1
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304	>.1	0.007	0.013	0.004
ppm Water	ppm	ASTM D6304	>1000	79	131.9	41.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>19834</b>	9363	
Particles >6µm		ASTM D7647	>1300	<b>4</b> 2953	9096	
Particles >14µm		ASTM D7647	>160	156	919	
Particles >21µm		ASTM D7647	>40	23	257	
Particles >38µm		ASTM D7647	>10	1	10	
Particles >71µm		ASTM D7647	>3	1	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>2</b> 1/19/14	22/20/17	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	0.31	0.31	0.223

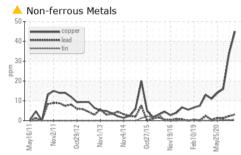
Contact/Location: LARRY WEAVER - KIMMOBTM8 Page 3 of 4

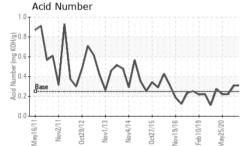


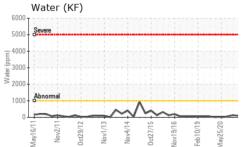
# **OIL ANALYSIS REPORT**





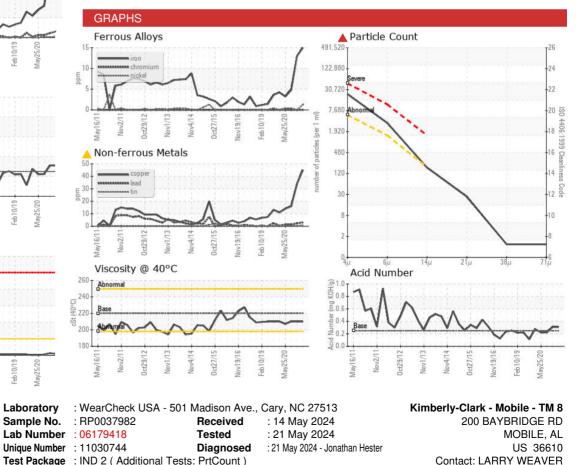






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	🔺 MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	210	210	210
SAMPLE IMAGES	\$	method	limit/base	current	history1	history2
Color						

Bottom



Test Package : IND 2 (Additional Tests: PrtCount)

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: KIMMOBTM8 [WUSCAR] 06179418 (Generated: 05/21/2024 08:56:43) Rev: 1

Certificate 12367

Contact/Location: LARRY WEAVER - KIMMOBTM8

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